Everllence

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Ammonia Engine Passes "Huge Milestone" en Route to Commercial Debut

Successful FAT stands testament to strong engineering concept, continues ME-LGIA's smooth development

Everllence has announced the successful Factory Acceptance Test (FAT) of its first ammonia-burning engine built by licensee, Engine & Machinery of Hyundai Heavy Industries (HHI-EMD) in South Korea. The dual-fuel Everllence B&W 6G60ME-LGIA (-Liquid Gas Injection Ammonia) type is slated for a vessel for Singapore-based, Eastern Pacific Shipping (EPS) currently under construction at HD Hyundai Heavy Industries (HHI) in Korea. The engine also comes equipped with HPSCR (High Pressure Selective Catalytic Reduction) technology.

This milestone also marks an important step forward for EPS's ammonia programme. The Very Large Ammonia Carriers (VLACs) under construction at HHI – with first delivery scheduled from October 2026 – will be the first in the world to be equipped with the Everllence 6G60ME-LGIA ammonia engines, positioning them at the forefront of low-carbon propulsion development.

An FAT is a quality-assurance process where newly manufactured equipment is rigorously tested to ensure it meets all specifications, making it ready for installation and operation on the customer side.

Ole Pyndt Hansen – Senior Vice President, Head of Two-Stroke R&D, Everllence – said: "This is a huge milestone that places our ammonia engine on the very brink of its commercial debut. This engine sets new benchmarks in zero-carbon propulsion and digitally connected performance, and has attracted great interest since development began. The speedy execution of this FAT is just the latest step in what we anticipate will be a largely seamless journey from lab to ocean. It stands testament to Everllence's unique ability to deliver just what the market needs. Bringing new fuels to market is not just innovation – it's imperative for zero-carbon shipping."

Everllence first introduced the ME-LGIA at a two-day event in Copenhagen in November 2025. Using the Diesel principle and the well-known, dual-fuel Liquid Gas Injection concept, the engine has many of the same merits as Everllence's existing ME-LGIM and ME-LGIP units that, respectively, run on methanol and LPG. The new engine also has many, extra safety features

such as containment systems, sensors, system ventilation and double-walled piping developed especially for ammonia's characteristics as a fuel.

Christian Ludwig – Vice President, Head of Global Sales & Promotion, Two-Stroke Business, Everllence – said: "The ME-LGIA successfully completed its FAT in all operation modes and we can report that the engine is stable and running very well. Special thanks go to HHI-EMD for its central role in the production of this engine, and for its stellar collaboration during testing and the FAT itself. This new success comes off the back of an intense testing programme stretching back three years where safety has always been the prime consideration. Combined with the knowledge we will gather from a number of other pilot projects we are currently engaged in, we are confident that this will ultimately deliver the gold-standard in ammonia engines."

Everllence reports that the full sales release of the ME-LGIA will initially feature G50, S50, S60, G60, G70 and G80 bore sizes; retrofit options will also be made available as part of the full sales release.

The Everllence B&W 6G60ME-LGIA HPSCR engine pictured at Engine & Machinery of Hyundai Heavy Industries during its Factory Approval Test

Everllence (formerly MAN Energy Solutions) is a leading provider of propulsion, decarbonization and efficiency solutions for shipping, the energy economy and industry. True to our motto – 'Moving big things to zero' – we help key industries in the global economy to reduce hard-to-abate emissions. Our technologies have a measurable impact on the success of the global energy transition. Headquartered in Germany, Everllence employs some 15,000 people at over 140 sites globally. Our after-sales brand, Everllence PrimeServ, also supports our customers through its worldwide service-center network.